**A Climate of Change**

1**. Introduction** – Lecture with PowerPoint presentation – Film “Inconvenient truth”

Assignment – List and define vocabulary words

Quiz – “Inconvenient Truth”

NGSS – Disciplinary Core Ideas –

1. Earth Systems

2. Earth and Human Activities

Practices –

1. Asking Questions

2. **Evidence** – Demonstrate Google Earth and have students practice operating it.

Present NOAA and other data rich sites.

Assignment – Create a tour using Google Earth showing the signs of Climate Change.

Write a 2–3 page paper evaluating data on climate change.

NGSS – Disciplinary Core Ideas –

1. Earth Systems.

2. Earth and Human Actives.

Practices –

1. Analyzing and Interpreting Data.

2. Obtaining, Evaluating and Communicating Information.

Crosscutting Concepts –

1. Cause and Effect.

2. Stability and Change.

3. Patterns

3. **Solutions** – Lecture and PowerPoint presentation on renewable energy.

Student Introduction to the K'NEX Education Renewable Energy Set.

Assignment – Lab - Construct and power a small electrical device using the set.

NGSS – Disciplinary Core Ideas –

1. Earth Systems.

2. Earth and Human Actives.

Practices –

1. Designing Solutions.

2. Planning and Carrying Out Investigations.

4. **Conclusion** – Debrief students on what they learned in a classroom discussion.

Assignment – 1-2 page paper on what students learned.

Test – Student will be tested on their understanding of Climate Change.

NGSS – Disciplinary Core Ideas –

1. Earth Systems.

2. Earth and Human Actives.

Practices –

1. Engaging in Argument from Evidence.

2. Obtaining, Evaluating and Communicating Information